

1410-678  
ETX99-272

Nixon & Vanderhye P.C. (10/09)  
(Domestic Non-Assigned/Foreign) Page 16

**RULE 63 (37 C.F.R. 1.63)**  
**INVENTORS DECLARATION FOR PATENT APPLICATION**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

## A FREQUENCY DOMAIN ECHO CANCELLER

the specification of which (check applicable box(es)):

☐ is attached hereto  
☒ was filed on June 1, 2000 as U.S. Application Serial No. 60/141,069 (Atty Dkt. No. 1410-679)  
☐ was filed as PCT International application No. \_\_\_\_\_ on \_\_\_\_\_  
and (if applicable to U.S. or PCT application) was amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed or, if no priority is claimed, before the filing date of this application:

**Priority Foreign Application(s):**

Country

Day/Month/Year Filed

[illegible]

I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT international applications listed above or below and, insofar as the subject matter of each of the claims of this application is not disclosed in such prior applications in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior applications and the national or PCT international filing date of this application:

**Prior U.S./PCT Application(s):**  
**Application Serial No.**

Day/Month/Year Filed

**Status: patented  
pending, abandoned**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And on behalf of the owner(s) hereof, I hereby appoint **NIXON & VANDERHYE P.C., 1100 North Glebe Rd., 8<sup>th</sup> Floor, Arlington, VA 22201-4714, telephone number (703) 816-4000 (to whom all communications are to be directed)**, and the following attorneys thereof (of the same address) individually and collectively owners' attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent: Arthur R. Crawford, 25327; Larry S. Nixon, 25640; Robert A. Vanderhye, 27076; James T. Hosmer, 30184; Robert W. Faris, 31352; Richard G. Besha, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C. Spooner, 27393; Leonard C. Mitchard, 29009; Duane M. Byers, 33363; Jeffrey H. Nelson, 30481; John R. Lastova, 33149; H. Warren Bumam, Jr. 29366; Thomas E. Byrne, 32205; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; Robert A. Molan, 29834; B. J. Sadoff, 36663; James D. Berquist, 34776; Updeep S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331; Frank P. Presta, 19828; Joseph S. Presta, 35329; Joseph A. Rhoads, 37515. I also authorize Nixon & Vanderhye to delete any attorney names/numbers no longer with the firm and to act and rely solely on instructions directly communicated from the person, assignee, attorney, firm, or other organization sending instructions to Nixon & Vanderhye on behalf of the owner(s).

1.	Inventor's Signature:	<u>Fredrik Lindqvist</u>		Date:	<u>2000-06-26</u>
	Inventor:	Fredrik (first)	MI (last)	LINDQVIST (last)	Sweden (citizenship)
	Residence: (city)	Skärholmen	(state/country)	Sweden	
	Post Office Address:	Skogsslingan 34, Skärholmen, Sweden			
	(Zip Code)	SE-127 41			
2.	Inventor's Signature:			Date:	
	Inventor:	Antoni (first)	MI (last)	FERTNER (last)	Sweden (citizenship)
	Residence: (city)	Solna	(state/country)	Sweden	
	Post Office Address:	Kruhusbacken 76 1tr, Solna, Sweden			
	(Zip Code)	SE-169 52			

**FOR ADDITIONAL INVENTORS, check box ☒ and attach sheet with same information and signature and date for each.**

3.

Inventor's Signature:

Inventor:

Pål  
(first)

MI

FRENGER  
(last)

Date:

Sweden  
(citizenship)

Residence: (city)

Solna

(state/country)

Sweden

Post Office Address:

Himlabacken 10, Solna, Sweden

(Zip Code)

SE-170 78

Nixon & Vanderhye, P.C. (10/99)  
(Domestic Non-Assigned/Foreign) Page 1

Nixon & Vanderhye, P.C. (N&V)  
 Non-Assigned/Foreign  
 AUG 24 2000  
 JCTG 3230  
 PATENT & TRADEMARK OFFICE

## A FREQUENCY DOMAIN ECHO CANCELLER

☐ is attached hereto  
☒ was filed on June 1, 2000 as U.S. Application Serial No. (Att'y Dkt. No. 1410-679)  
☐ was filed as PCT International application No. \_\_\_\_\_ on \_\_\_\_\_  
 and (if applicable to U.S. or PCT application) was amended on \_\_\_\_\_

Application Number

Country

Day/Month/Year Filed

[illegible]

I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT international applications listed above or below and, insofar as the subject matter of each of the claims of this application is not disclosed in such prior applications in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior applications and the national or PCT international filing date of this application:

**Prior U.S./PCT Application(s):**  
**Application Serial No.**

Day/Month/Year Filed

**Status: patented  
pending, abandoned**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And on behalf of the owner(s) hereof, I hereby appoint **NIXON & VANDERHYE P.C., 1100 North Glebe Rd., 8<sup>th</sup> Floor, Arlington, VA 22201-4714, telephone number (703) 816-4000 (to whom all communications are to be directed)**, and the following attorneys thereof (of the same address) individually and collectively owner's/owners' attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent: Arthur R. Crawford, 25327; Larry S. Nixon, 25640; Robert A. Vanderhye, 27076; James T. Hosmer, 30184; Robert W. Faris, 31352; Richard G. Besha, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C. Spooner, 27393; Leonard C. Mitchard, 29009; Duane M. Byers, 33363; Jeffrey H. Nelson, 30481; John R. Lastova, 33149; H. Warren Bumam, Jr. 29368; Thomas E. Byrne, 32205; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; Robert A. Molan, 29834; B. J. Sadoff, 36663; James D. Berquist, 34776; Updeep S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331; Frank P. Presta, 18828; Joseph S. Presta, 35329; Joseph A. Rhoa, 37515. I also authorize Nixon & Vanderhye to delete any attorney names/numbers no longer with the firm and to act and rely solely on instructions directly communicated from the person, assignee, attorney, firm, or other organization sending instructions to Nixon & Vanderhye on behalf of the owner(s).

1.	Inventor's Signature: Inventor:	<u>Fredrik</u>	<u>LINDQVIST</u>	Date:	<u>Sweden</u>
		(first)	(last)		(citizenship)
		MI	(state/country)	<u>Sweden</u>	
	Residence: (city)	<u>Skärholmen</u>			
	Post Office Address:	<u>Skogsslingan 34, Skärholmen, Sweden</u>			
	(Zip Code)	<u>SE-127 41</u>			
2.	Inventor's Signature: Inventor:	<u>Antoni Fertner</u>	<u>FERTNER</u>	Date:	<u>27 Juni 2000</u>
		(first)	(last)		Sweden (citizenship)
		MI	(state/country)	<u>Sweden</u>	
	Residence: (city)	<u>Solna</u>			
	Post Office Address:	<u>Kruthusbacken 76 1tr, Solna, Sweden</u>			
	(Zip Code)	<u>SE-169 52</u>			

**FOR ADDITIONAL INVENTORS, check box ☒ and attach sheet with same information and signature and date for each.**

3.

Inventor's Signature:

Inventor:

Pål  
(first)

MI

FRENGER  
(last)

Date:

Sweden  
(citizenship)

Residence: (city)

Solna

(state/country)

Sweden

Post Office Address:

Himlabacken 10, Solna, Sweden

(Zip Code)

SE-170 78

1410-679  
ETX99-272Nixon & Vanderhye P.C. (10/99)  
(Domestic Non-Assigned Foreign) Page 1RULE 63 (37 C.F.R. 1.63)  
INVENTORS DECLARATION FOR PATENT APPLICATION  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

A FREQUENCY DOMAIN ECHO CANCELLER

the specification of which (check applicable box(es)):

☐ is attached hereto  
☒ was filed on June 1, 2000 as U.S. Application Serial No. (Att. Dkt. No. 1410-679)  
☐ was filed as PCT International application No. on  
and (if applicable to U.S. or PCT application) was amended on

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed or, if no priority is claimed, before the filing date of this application:

Priority Foreign Application(s):

Application Number

Country

Day/Month/Year Filed

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

Application Number

Date/Month/Year Filed

I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT international applications listed above or below and, insofar as the subject matter of each of the claims of this application is not disclosed in such prior applications in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior applications and the national or PCT international filing date of this application:

Prior U.S./PCT Application(s):

Application Serial No.

Day/Month/Year Filed

Status: patented  
pending, abandoned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And on behalf of the owner(s) hereof, I hereby appoint NIXON & VANDERHYE P.C., 1100 North Glebe Rd., 8<sup>th</sup> Floor, Arlington, VA 22201-4714, telephone number (703) 816-4000 (to whom all communications are to be directed), and the following attorneys thereof (of the same address) individually and collectively owner's/owners' attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent: Arthur R. Crawford, 25327; Larry S. Nixon, 25840; Robert A. Vanderhye, 27076; James T. Hosmer, 30184; Robert W. Faris, 31352; Richard G. Besha, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C. Spooner, 27393; Leonard C. Mitchard, 29009; Duane M. Byers, 33363; Jeffrey H. Nelson, 30481; John R. Lastova, 33149; H. Warren Burnam, Jr. 29366; Thomas E. Byrne, 32205; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; Robert A. Molan, 29834; B. J. Sadoff, 36663; James D. Berquist, 34776; Updeep S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331; Frank P. Presta, 19828; Joseph S. Presta, 35329; Joseph A. Rhoads, 37515. I also authorize Nixon & Vanderhye to delete any attorney names/numbers no longer with the firm and to act and rely solely on instructions directly communicated from the person, assignee, attorney, firm, or other organization sending instructions to Nixon & Vanderhye on behalf of the owner(s).

1.	Inventor's Signature:			Date:	
	Inventor:	Fredrik	LINDQVIST		Sweden
		(first)	(last)		(citizenship)
	Residence: (city)	Skärholmen	(state/country)	Sweden	
	Post Office Address:	Skogsslingan 34, Skärholmen, Sweden			
	(Zip Code)	SE-127 41			
2.	Inventor's Signature:			Date:	
	Inventor:	Antoni	FERTNER		Sweden
		(first)	(last)		(citizenship)
	Residence: (city)	Solna	(state/country)	Sweden	
	Post Office Address:	Kruhusbacken 76 1tr, Solna, Sweden			
	(Zip Code)	SE-169 52			

FOR ADDITIONAL INVENTORS, check box ☒ and attach sheet with same information and signature and date for each.

3.

Inventor's Signature:

Inventor:

*Pål Frenger*  
Pål  
(first) MI

FRENGER

(last)

Date:

2000-06-26

Sweden

(citizenship)

Residence: (city)

Solna

(state/country)

Sweden

Post Office Address:

Himlabacken 10, Solna, Sweden

(Zip Code)

SE-170 78